

EAST AYRSHIRE COUNCIL

DEVELOPMENT & PROPERTY SERVICES COMMITTEE – 5 OCTOBER 2004

FLOODING ON 8/9TH AND 17TH AUGUST 2004

Report By Executive Director of Development & Property Services

1. PURPOSE OF REPORT

- 1.1 To advise the Committee of locations on the road network where flooding occurred on 8/9th and 17th August 2004 in the North Area, and on 11 August 2004 in the South Area, the reasons for the flooding and the action taken.

2. BACKGROUND

- 2.1 Heavy, thundery rainfall occurred on these dates. While the whole of East Ayrshire was affected, in the north it was particularly severe. On the 17th August, flooding was mainly confined to Kilmarnock/Irvine Valley.
- 2.2 Recorded rainfall is as follows, for the two stations within East Ayrshire, both located in the North:

Date	Station		Maximum Hourly Total	Cumulative
8.08.04	Amlaird (Newmilns)	1800 – 2100	5mm	8.6
9.08.04		0200 – 1100	8.2mm	38.8
8.08.04	Saughhall (Waterside)	1800 – 2100	7.2mm	12mm
9.08.04		0200 – 2000	4.5mm	28mm
17.08.04	Amlaird	1300 – 1400	14.1mm	17.4mm
17.08.04	Saughhall	1300 – 1500	1.3mm	2.6mm

- 2.3 The flooding in the South on the 11th. August does not coincide with a corresponding period of heavy rain in the North.
- 2.4 The problems were generally caused by the amount of rain which fell in a short timescale.

3. FLOODING

- 3.1 A summary of the more severely affected locations is given in Appendix 'A' together with the implications, possible cause and action taken.
- 3.2 It is clear that, in the majority of locations, the sewers have been unable to cope with the volume of water, mostly due to insufficient capacity. In some cases, there has been a blockage of some form, indicating a lack of maintenance by Scottish Water.
- 3.3 Roads have a routine inspection system in place for checking watercourses for potential blockages. There is also an inspection and cleaning regime for

culvert grids. No flooding was reported on the watercourses and culverts which are subject to these inspections.

- 3.4 The river levels in Kilmarnock and Irvine Waters, which although high on the 17th. August, did not give cause for concern.

4. ACTION TAKEN

- 4.1 Initial difficulties were encountered contacting Scottish Water through their call centre to report the flooding locations.
- 4.2 Roads staff were heavily involved in dealing with the floods and providing sandbags to affected households and premises.
- 4.3 Ongoing liaison between Roads and Scottish Water staff has resulted in remedial action being taken whenever possible. This has been summarised in Appendix 'A'.
- 4.4 The indications are that heavy downpours of this nature will continue. Substantial investment in the sewer network will be required in many areas to increase capacity.
- 4.5 Another option is to remove surface water from the sewers by constructing sustainable urban drainage (SUDS) schemes for existing roads, but this would also require major investment.

5. LEGAL IMPLICATIONS

- 5.1 Scottish Water is required to dispose of surface water from existing public roads by the Sewerage Scotland Act 1968.
- 5.2 East Ayrshire Council is required to undertake inspections and has a duty to maintain watercourses which could cause flooding on non-agricultural land, under the Flood Prevention (Scotland) Act 1961 as amended by the Flood Prevention and Land Drainage Act 1997.

6. FINANCIAL IMPLICATIONS

- 6.1. Roads incur costs in attending to flooding emergencies. Consideration should be given to recharging Scottish Water where it is established that sewer capacity or lack of maintenance is the problem.

7. CONCLUSIONS

7.1 The Committee is asked to:

- i) Note the reasons for flooding between the 8th. August 2004 and 17 August 2004, and the action being taken;
- ii) Through the Scottish Parliament, press for additional funding to improve the sewer network

James Lavery
Executive Director of Development Services
13 September 2004

LIST OF BACKGROUND PAPERS

Nil

For further information please contact Alastair Wyper on 01563 576310

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EAST AYRSHIRE COUNCIL
DEVELOPMENT & PROPERTY SERVICES
ROADS and TRANSPORTATION

Report on Flooding - North Area

No.	Location	Date(s)	Problem Description	Possible Cause	Remarks
1.	A735 Kilmaurs Road, K/K south of the junction with Tourhill Road.	17-Aug	Carriageway completely flooded.	Sewer blockage downstream of problem (2)	Cleared Grit basket removed from channel of manhole
2.	A735 Kilmaurs Rd., K/K south of the junction with Woodhill Rd. (Previously repaired but requiring repairs to the carriageway again).	09-Aug	Effluent running along carriageway channel.	Sewer blockage downstream.	Cleared as in 1
3.	A735 Hill St. K/K junction with Stafford St.	17-Aug	Carriageway and footways completely flooded.	Sewer Capacity Problem.	Scottish water reported "no problem found"
4.	Hil St. at Johnnie Walkers factory.	17-Aug	Carriageway and footways completely flooded.	Sewer Capacity Problem.	As in 3
5.	Garden Street adjacent to old hospital site.	17-Aug	Carriageway and footway completely flooded.	Sewer Capacity Problem.	As in 3
6.	Portland Street car park (north of railway)	17-Aug	Car park flooded.		Surface water outfall to Kilmarnock Water backing up to Car Park
7.	14 London Road, K/K (Building at corner of Holehouse Rd.)	17-Aug	Basement and Car park flooded.	Galleon Burn Capacity Problem.	Scottish water say this is Historical flooding from Galleon Burn
8.	Holehouse Rd. K/K junction with Alloway Avenue	17-Aug	Surcharging manhole and carriageway damage.	Sewer Capacity Problem.	Blockage cleared in combined sewer
9.	B7073 London Rd. junction with Alloway Avenue.	17-Aug	Eastbound carriageway flooded.	Piersland Burn Capacity Problem.	Agreed problem as above.
10.	A735 Oldmill Road K/K junction with Dick Rd.	17-Aug	Surcharging manhole	Sewer Capacity Problem.	Scottish Water consider Galleon Burn surcharging
11.	Bonnyton Road railway bridge.	17-Aug	Carriageway and footway completely flooded.	Sewer Capacity Problem.	Scottish Water consider gullies could not cope
12.	Portland Road/Irvine Rd. adjacent to Springhill bowling green.	09-Aug 17-Aug	Surcharging manhole	Western Intersecting Sewer Capacity Problem - Note :- Previous week flooding in Beech Av. Area would appear to have been caused by the same capacity problem of W.I.Sewer.	Capacity restricted by debris held on Manhole safety chains - cleared.
13.	McLelland Drive K/K junction with Howard Park Drive.	17-Aug	Carriageway, footway and garden flooded.	Sewer Capacity Problem.	Agreed possible by Scottish Water
14.	Barbadoes Road K/K (Area of No. 10)	17-Aug	Carriageway, footway and garden flooded.	Sewer Capacity Problem.	As in 14.
15.	Safeway car park, West Shaw St. K/K	17-Aug	Car Park flooded.	Sewer Capacity Problem.	Throttle pipe from Private 900mm Holding Track backing up.

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Report on Flooding - North Area

No.	Location	Date(s)	Problem Description	Possible Cause	Remarks
16.	Holmquarry Road, K/K, adjacent to E.A.C. Building and Works depot.	17-Aug	Carriageway and footways completely flooded.	Sewer Capacity Problem.	Flat gradient in sewer possible Siltation and cleaning required
17.	Holmquarry Road, K/K, adjacent to E.A.C. Traffic office/ A Plant.	17-Aug	Carriageway and footways completely flooded.	Sewer Capacity Problem.	As in 16.
18.	Haining Avenue junction with Hurlford Road Service Rd.	17-Aug	Carriageway and footways completely flooded.	Sewer Capacity Problem.	Scottish water report no known problem in this area
19.	Innellan Drive K/K junction with Ettrick Crescent	09-Aug	Carriageway and footways completely flooded.	sewer capacity problem	Scottish Water report historical problem in this area from old mine workings and drainage spilling from grassed areas
20.	Grougar Road, Crookedholm - Full length	17-Aug	Carriageway, footway and garden flooded.	Sewer Capacity and Storm water problems	Roads investigating Storm Water System
21.	A71 Riccarton Road, Hurlford at railway bridge.	09-Aug 17-Aug	Surcharging manhole and carriageway damage.	Sewer Capacity Problem.	Debris present - Scottish Water to survey and clear
22	Beech Avenue	09-Aug	Carriageway, footways flooded	Sewer Capacity Problem	
23	Darvel Road, Newmilns	09-Aug	Carrigeway, footways flooded	Sewer blockage	Cleared
24	Kilmaurs Cross @ Carry Out	09-Aug	Carraigeway flooded	Sewer Capacity Problem	
25	Linfen Ave East - Kilmarnock	17-Aug	Play Area contaminated	Overflow pipe capacity problem	Pipe in play area has insufficient capacity - East Ayrshire responsibility
26	East Shaw Street, Kilmarnock opp Gibson Wright Premises	17-Aug	Gibson Wright Store inundate, cleared very quickly, no action taken.	Sewer capacity problem	

**EAST AYRSHIRE COUNCIL
DEVELOPMENT & PROPERTY SERVICES
ROADS & TRANSPORTATION
REPORT ON FLOODING – SOUTH AREA**

Date	Time	Location	Action taken	Remarks
11-08-04	19.50	Cumnock, Barrhill Rd at Jct of Bank Ave	Scottish Water contacted	Surcharging MH damage to c'way. Capacity problem in sewer in Barrhill Rd during intense rain
11-08-04	19.50	Auchinleck, Coal Rd at Boswell Arms	Sand bags placed at building	Combined drainage system at capacity, gullies not taking water. Drop kerb for servicing removed and full height kerb installed.
11-08-04	Evening	Auchinleck Main St / Well Rd	Sand bags supplied to shops	Combined drainage system at capacity, gullies not taking water. Sewer MH surcharging damaged c'way
11-08-04	Evening	Auchinleck Main St Nightingale House	Fire Service in Attendance. Roads presence not requested. Flood receded before building flooded.	Combined drainage system at capacity, gullies not taking water. Main St closed for a short time. Flood water cleared down very quickly
				Note Scottish Water are planning a major sewer upgrading in Auchinleck which will increase capacity and reduce potential for flooding. A start date of November has been indicated for this scheme.

Word/I/Admin/Surcharging Scottish Water Sewers 18Aug 04